

IDC-A1,AMD,M

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~~Page 6, in the background section, the second paragraph, replace with the following new paragraph:~~

--- Thus, there is a continuing need for a multiband the UWB communication transceiver ~~[[with]]~~ employing a new dual-mode shaped pulse~~[[s]]~~ architecture ~~and polyphase-based~~ based on a multichannel for multiband and multicarrier ~~[[radio]]~~ solution for the indoor and outdoor operations.

~~Page 6, in the summary section, the third paragraph, replace with the following new paragraph:~~ IDC-A2,AMD

--- In accordance with one aspect, a multiband UWB communication transmitter may include ~~a polyphase-based multichannel, a shaped pulse generator, and a N switch in parallel to connect from the polyphase-based multichannel to the shaped pulse generator coupled to a multichannel-based multicarrier modulator.~~ an encoder coupled to an interleaver, the interleaver coupled to a polyphase-based multichannel, the polyphase-based multichannel coupled to a shaped pulse generator, the shaped pulse generator coupled to a multichannel-based multicarrier modulator, the multichannel-based multicarrier modulator coupled to a power amplifier (PA), a clock control coupled to the polyphase-based multichannel, the shaped pulse generator, and the multichannel-based multicarrier modulator.

Other aspects are set forth in the accompanying detailed description and claims.

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~~Page 6, in the brief description of the drawings section, from the page 7 to the page 8, replace with the following new section:~~

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--- FIG. 1 shows a block diagram ~~of one embodiment~~ of a multiband UWB communication transceiver for ~~[[the]]~~ indoor and outdoor operations~~[[.]]~~ according to one embodiment.